M. A. R. 57 (Rule 116)

Measurement Book

No. B 83431

2nd & final

BR 233/31.05.17

Name of work Improvements road from SM road to Mallasandra road to Railway gate in Ward no-12 Shettyhalli Sub-Division From .... To ....

Contractor of nature of Agency......Technical Manager (West) KRIDL

commencement of work......No EE/DD/WO/ 237/12-13.. D:-

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	Measured on 4	29/5/20	5 2017	6	7	8
Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface. picking up scarified materials and stacking the old serviceable materials with lead of 100m sequential spreading of the salvaged aggregates complete as per specifications						
Dp qty vide pg no Item no-①	132408/a	of MB	1325/12-13	(-)	470.0 sqm	
			qty now to be	paid-	Nil	
construction of granular sub-base by providing close graded material mixing in a mechanical mix plant						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	at omc carriage of mixed materials to work site. spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete as per specification.						
	Dp'Qty vide pg no 132 408/1 of MB 1325/12-13 (-) Item no-②					694-04cum ~~981-12cum~~	
	Qty now to be paid – Nil –						
I-3.	Providing, laying, spreading and compacting graded stone aggregate. to wet mix macadam specification including premixing the material with water at omc in mechanical mix plant carriage of mixed						

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Measurement Book

No. B 83432

work .... From .... To ....

Contractor of nature of Agency..

commencement of work......................................

Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8

method of tipper to site laying in uniform layers with Paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve desired density complete as per specifications.

DPQty vide pg no 13408/2 of M.B. 1380/B-17 (–) ~~1059.48 sqm~~ 94.0 sqm

qty now to be paid – Nil —

9A Providing and applying primer coat from 7.5 to 9.8 kg 10 sqm for surfaces of low & medium porosity respectively over prepared surface of granular

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	base with cut back c-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set including cost of all material labour HOM of machineries complete as per specifications.						
	Opavg vide pg no 132409/, of M.B. 1325/D-13					470.0 sqm (-) ~~68.36 sqm~~ Rs	
	Say now to be paid - Nil -						
5.5	Tack coat Providing laying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg / sqm on the prepared bituminous						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 83433

of work .... From .... To ....
of Contractor of nature of Agency..
commencement of work..

Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Granular surface cleaned with mechanical broom complete as per specification.						
Qty vide pg no					16906.96 sqm	
Qty vide pg no 83464/2		of	this M.B.		2110.04 sqm	[illegible]
			Total Qty		19017.0 sqm	
Dpa vide pg no 132409/1		of	M.B1325/12-13	(−)	16906.96 sqm	
		Qty now to be paid			2110.04 sqm	[illegible]
				@	10=80	Rs/- 22788.00

[illegible]

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
I.6.	providing and laying bituminous macadam on Prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including loading of aggregates with FE loader hot mixing of the stone aggregates and bitumen in hot mix plant with FE loader hot mixing paver and laying mixed material with paver finisher to the required level and grade rolling by power roller to achieve the desired density 50/75mm compacted thickness with 80/100 grade bitumen but excluding cost of primer/tack coat with complete as per specifications Dpa vide pg no 132409/2 of M.B 1315/12-13(-) Qty now to be paid =					23.50 Cum Nil —	

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Measurement Book

No. B 83434

....
.... From .... To ....
Contractor of nature of Agency..
commencement of work..

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Providing and laying bituminous Concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 5.4 to 5.6% of mix & filler transporting the hot mix to work site laying with a hydrostatic paver finisher with sensor control to the required grade level & alignment rolling with smooth wheeled vibratory and tandem rollers to acheive the desired compaction with 6% bitumen 80/100 grade using 40-60.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	~~× 30.0 ×~~	~~$\frac{6.8+5.3}{2}$~~	~~× 0.04~~ =		
		1 ×	15.0 ×	$\frac{9.6+8.4}{2}$	× 0.04 =	5.40 ঘমি	
		1 ×	30.0 ×	$\frac{8.4+6.1}{2}$	× 0.04 =	8.70 ঘমি	
		1 ×	30.0 ×	$\frac{6.1+6.6}{2}$	× 0.04 =	7.62 ঘমি	
		1 ×	30.0 ×	$\frac{6.6+6.2}{2}$	× 0.04 =	7.29 ঘমি	
		1 ×	30.0 ×	$\frac{6.2+5.3}{2}$	× 0.04 =	6.90 ঘমি	
	24/5/14	1 ×	30.0 ×	$\frac{5.3+6.7}{2}$	× 0.04 =	7.20 ঘমি	
		1 ×	30.0 ×	$\frac{6.7+8.4}{2}$	× 0.04 =	9.06 ঘমি	
		1 ×	30.0 ×	$\frac{8.4+9.8}{2}$	× 0.04 =	10.98 ঘমি	
		~~1 ×~~	~~30.0 ×~~	~~$\frac{9.8+9.7}{2}$~~	~~× 0.04~~ =	~~11.70 ঘমি~~	
		~~1 ×~~	~~28.50 ×~~	~~$\frac{9.7+8.3}{2}$~~	~~× 0.04~~ =	~~10.26 ঘমি~~	
						85.05 ঘমি	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 83435

of work .... From .... To ....

of Contractor of nature of Agency..

commencement of work...

Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
					~~85.05cum~~	
				@		
	1 ×	7.0 ×	$\frac{9.8+9.8}{2}$	× 0.04 =	2.74 cum	
					65.61 cum	
				@	~~10504-08~~	
					Rs ~~689178-00~~	
Qty vide pg no 132 & 13/2		of M.B. 1325/12-13			676.27 cum	
		Total qty			741.88 cum	
Dpa vide pg no 132 & 13/2		of MB 1325/12-13 (–)			676.27 cum	
	Qty now to be paid				65.61 cum	
				@	10504-08	
					Rs 689178-00	

689172

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3-8.	When anti stripping	agent	is	used	to appendix		
	501 Morth Specifications						
	DPA vide pg no 132 & 13/2	of M.B 1325/2013			(-)	4.66.48 cum	
			Qty now	to be paid - Nil -			
5-9	carriage of mixed materials 10 kms						
	Qty vide item no ⑦					65.61 cum	
						@ 56.70	
						Rs. 3720=00	
	Total Amount:	₹15686=00.				₹10766=00	
	[illegible] charge:	₹1568 =00				₹1076=00	
		₹8 ₹255=00				₹818 [illegible]=00	
	[illegible] Ravi. N.K. 21/5/14						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5-8.	When anti stripping agent is used to appendix 501 morth Specifications						
	DPA vide pg no 132 to 137/2 of M.B 1325/2013 (-)					466.48 cum	
	Qty now to be paid - Nil -						
5-9	carriage of mixed materials 10 kms						
	Qty vide item no ⑦					65.61 cum	
					@	56=70	
						Rs:- 3720=00	
	Total Amount:- ₹15686=00.					₹10766=00	
	[illegible] charges:- ₹1568=00					₹10766=00	
	78 ₹255=00					₹818482=00	
	[illegible] Ravi. N.K. 29/5/19						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 83436

...admitted for Rs. ....

...by Cheque for Rs. ....

....

...of work .... From .... To ....

...Contractor of nature of Agency ....

...commencement of work ....

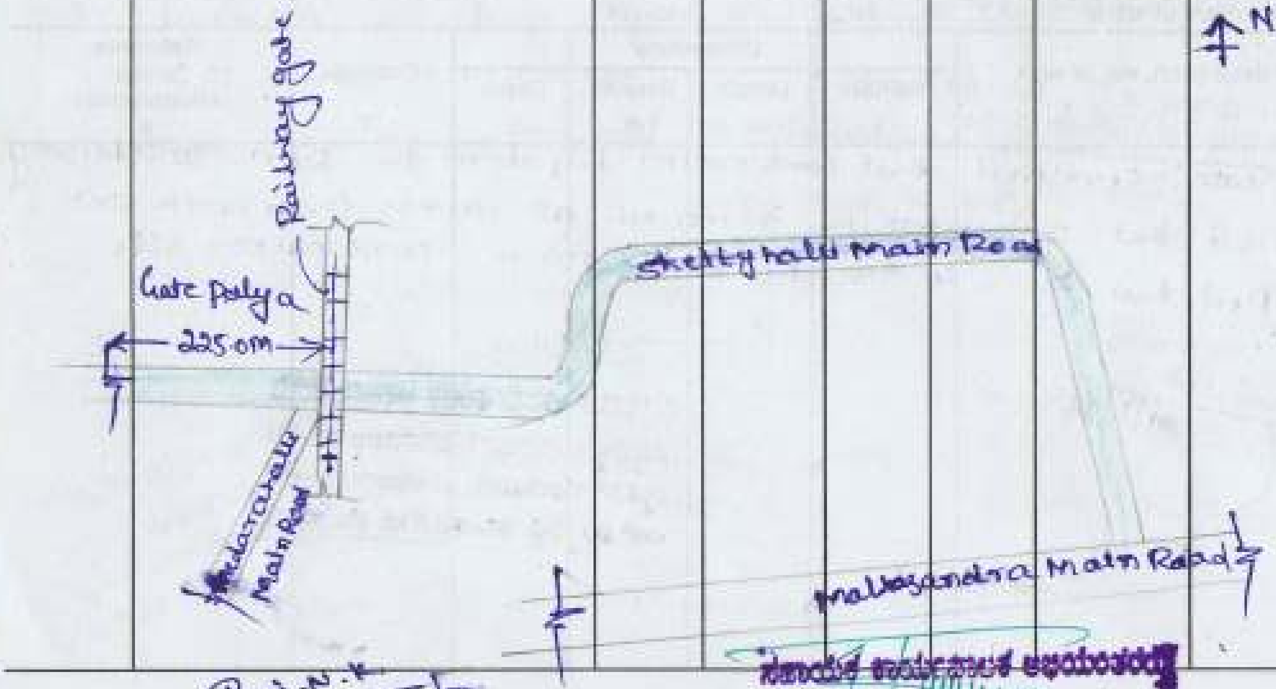
Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
		Length	Breadth	Depth		
2	3	4	5	6	7	8
Certificate :- Certified that contractor has done the work satisfactory Certified that contractor has removed all debris from work spot. Certified that there is no due work from contractor side.						

Ravi. N.K.
29/5/14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, [illegible], ಬೆಂಗಳೂರು

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



Ravi N.K.
29/5/14

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